

## CLAIMS

1. A conductor-mixed active electrode material wherein an active electrode material and a conductive material are processed through stirring and mixing with  
5 hard balls.
2. A conductor-mixed active electrode material according to claim 1, wherein the conductive material is coupled around the active electrode material.
3. A conductor-mixed active electrode material according to claim 1, wherein the active electrode material is a lithium manganate.
- 10 4. An electrode structure, comprising:  
a current collecting material; and  
an electrode layer having a conductor-mixed active electrode material as processed by stirring and mixing an active electrode material and a conductive material together with hard balls, and in that  
15 the electrode layer is formed on or above a surface of the current collecting material.
5. An electrode structure according to claim 4, wherein the current collecting material has in its surface more than one recess portion.
6. An electrode structure according to claim 4, characterized by having  
20 between the current collecting material and the electrode layer a current collection layer made of an anchor material.
7. A rechargeable battery using, as at least one electrode, an electrode structure comprising:  
a current collecting material; and  
25 an electrode layer having a conductor-mixed active electrode material as processed by stirring and mixing an active electrode material and a conductive material together with hard balls, while letting the electrode layer be formed on or above a surface of the current collecting material.
8. A rechargeable battery according to claim 7, wherein the active electrode  
30 material of a positive electrode structure thereof is lithium manganate whereas the conductive material is carbon.
9. A method of making a conductor-mixed active electrode material, wherein

an active electrode material and a conductive material are processed through stirring and mixing with hard balls.

10. A method of making a conductor-mixed active electrode material according to claim 9, wherein the conductive material is coupled around the active  
5 electrode material.

11. A method of making a conductor-mixed active electrode material according to claim 9, wherein the active electrode material is a lithium manganate.